Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_

202 3.3 and 3.4 Practice Worksheet (many problems come from Glencoe ws)

Determine the slope of the line that contains the given points.

1. B(-4, 4) R(0,2) 2. S(3, 8) T(3, 5)

Find the slope of each line.

3. 4.

5. What is the slope of a line parallel to ?

6. What is the slope of a line perpendicular to ?

Determine whether and are parallel, perpendicular, or neither.

7. K(-1, -8) M(1, 6) S(-2, -6) T(2, 10) 8. K(-4, 10) M(2,-8) S(1, 2) T(4, -7)

Graph the line that satisfies each condition.

9. m = -1/2 through (2, -2) 10. m = 4/3 (-3, -3)

9b. Graph a line parallel to #9 with a y-int. of 5. 10b. Graph a line ⊥ to #10 with a y-int. of -8.

Write the equation of the line in slope intercept form, given the following information.

11. (0, -10) 12. Passes through ( 2, -4) (5, 8)

13. passes through (-4, 2) (8, -1) 14. Passes through (5, 2) (5, 6)

15. passes through (6, 3) (-5, 3) 16. Write #12 in standard form.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write #13 in standard form.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. Perpendicular to y = 3x + 10 passing through (6, 3).

Write the equation of the line in point-slope form with the given conditions.

18. m = 2; (-5, 4) 19. m=-8; (6, -3)